

Wesley G Digitally signed by Wesley G Byerly Date: 2020.09.08 09:18:50.04/00/

MEMORANDUM

To:

Wesley Byerly, Pharm.D.

Associate VP for Research Compliance / Institutional Official

From:

Joseph Lorenzo, M.D.

Chair, Animal Care Committee

Subject:

Semi-Annual Review of Animal Care and Use Program and Inspections of Laboratory Animal

Facilities and Animal Study Areas

Date:

September 1, 2020

This represents the semi-annual report of the Institutional Animal Care and Use Committee (IACUC) of UConn Health's Program for Animal Care and Use, as well as the facility inspection of this institution, as required by the PHS Policy on Humane Care and Use of Laboratory Animals and as a condition of this institution's Animal Welfare Assurance (A3471-01) on file with the Office of Laboratory Animal Welfare (OLAW), and the USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Laboratory Animal Care and Use Program

The IACUC conducted its semi-annual evaluation of UConn Health's Animal Care and Use Program on August 20, 2020 using the Guide for the Care and Use of Laboratory Animals, 2011 (NRC) and, as applicable, 9 CFR Chapter 1,2.31. The Animal Care and Use Program has been accredited by AAALAC-i since 1977. The updated standardized review form available from the OLAW website (http://grants.nih.gov/grants/olaw/sampledoc/) was used as a basis for documenting the semi-annual evaluation (see attachment #1). The IACUC also reviewed all current IACUC approved deviations to ensure that these deviations were still applicable (see attachment #5).

UCHC is participating in OLAW, AAALAC-i, and Public Responsibility in Medicine & Research (PRIM&R) webcasts for continuing education for IACUC members. Emails are sent to all IACUC members when the UCH initial signs up for a webinar and again approximately a week before a webcast is scheduled. Most webinars are in the OVPR conference room. IACUC members were encouraged to participate in these webinars.

No significant deficiencies were noted in the Animal Care and Use Program.

Inspection of Animal Facilities and Animal Study Areas

The IACUC inspected the CCM animal facilities on July, 2019 and animal study areas (see attachment 2) from July 13, 2020 thru July 23, 2020 using the Guide for the Care and Use of Laboratory Animals, 2011 (NRC) and, as applicable, 9 CFR Chapter 1, 2.31. The standardized review form available from the OLAW website (http://grants.nih.gov/grants/olaw/sampledoc/) was used as a basis for documenting the semi-annual evaluation. The IACUC evaluation of the results of the facility inspections was performed on August 20, 2020.

Institutional Animal Care and Use Committee

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During the inspection of the facility, no significant deficiencies were found. There were some minor deficiencies and all deficiencies noted have a correction plan in place approved by the IACUC. The minor deficiencies are not a potential or actual threat to animal health.

There were no significant deficiencies found in any animal study areas. There were some minor deficiencies and all deficiencies noted all have a correction plan in place and approved by the IACUC.

It is the opinion of the IACUC that all deficiencies in the animal study areas and the animal facilities have been corrected or are on schedule for correction and, once corrected, all animal facilities and study areas will be consistent with PHS Policy, the *Guide*, and applicable Animal Welfare Regulations.

Minority Views

To date, there are no minority opinions with regard to this semi-annual report.

Signatures

The following IACUC members have reviewed the evaluation of the semi-annual evaluation of the animal care and use program and evaluation of the results of the inspection of the CCM facilities and required investigator laboratories.



I. Semiannual Program Review Checklist 1

Institutional Policies and Responsibilities

Date: JUNE 20, 2019

1.	Animal Care and Use Program NEW	\mathbf{A}^*	M	S	C	NA
	 Responsibility for animal well-being is assumed by all members of the program (Guide, 					# P
	p 1) [must]	X			-	
	 IO has authority to allocate needed resources (<i>Guide</i>, p 13) Resources necessary to manage program of veterinary care are provided (<i>Guide</i>, p 14) 					
	• Resources necessary to manage program of Veterinary care are provided (Guide, p_14) [must]	Χ				
	 Sufficient resources are available to manage the program, including training of 					
	personnel in accord with regulations and the Guide (Guide, pp 11, 15)	Χ				-
	 Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13) Responsibilities for daily animal care and facility management are assigned to specific 	X	-			
	• Responsibilities for daily animal care and facility management are assigned to specific individual(s) when a full-time veterinarian is not available on site (Guide, p 14) [must]	Х				
	Inter-institutional collaborations are described in formal written agreements (<i>Guide</i> , p.				_	
	15)	Χ	The state of the s			
	Written agreements address responsibilities, animal ownership, and IACUC oversight					
	(Guide, <u>p 15</u>)	Χ				
2.	Disaster Planning and Emergency Preparedness	A *	М	S	С	NA
Τ.	• Disaster plans for each facility to include satellite locations are in place (Guide, p 35, p					
	75) [must]	X				
	 Plans include provisions for euthanasia (Guide, p 35) [must] 	Χ				
	 Plans include triage plans to meet institutional and investigators' needs (Guide, p 35) 	X				
	Plans define actions to prevent animal injury or death due to HVAC or other failures		of the second			
	(Guide, p 35)	X				1
	 Plans describe preservation of critical or irreplaceable animals (Guide, p 35) Plans include essential personnel and their training (Guide, p 35) 	X		-		- Postalan
	 Plans include essential personnel and their training (Guide, p.35) Animal facility plans are approved by the institution and incorporated into overall 	^				
	response plan (<i>Guide</i> , p 35)	X				
	Law enforcement and emergency personnel are provided a copy and integration with					
	overall plan is in place (<i>Guide</i> , <u>p 35</u>)	Χ				9 4 8 8 9 9 1 1 1
3.	IACUC NEW	\mathbf{A}^*	M	S	C	NA
-	 Meets as necessary to fulfill responsibilities (Guide, p 25) [must] 	Χ				
	 IACUC Members named in protocols or with conflicts recuse themselves from protocol 					
	decisions (<i>Guide</i> , <u>p 26</u>) [must]	Χ		_		-
	Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33)	X				-
	 IACUC evaluates the effectiveness of training programs (Guide, p 15) 	X				1
4.	IACUC Protocol Review - Special Considerations	\mathbf{A}^*	М	S	C	NA
	 Humane endpoints are established for studies that involve tumor models, infectious 					
	diseases, vaccine challenge, pain modeling, trauma, production of monoclonal					
	antibodies, assessment of toxicologic effects, organ or system failure, and models of	Х				
	cardiovascular shock (<i>Guide</i> , p 27)	X				
	 For pilot studies, a system to communicate with the IACUC is in place (Guide, p 28) For genetically modified animals, enhanced monitoring and reporting is in place 	^				
	(Guide, p 28)	Х	-			All sections of the section of the s
	 Restraint devices are justified in the animal use protocols (Guide, p 29) [must] 	X				, ,
	 Alternatives to physical restraint are considered (Guide, p 29) 	X		Philips		

¹ The PHS Policy requires that Assured institutions comply with the regulations (9 CFR, Subchapter A) issued by the U.S. Department of Agriculture (USDA) under the Animal Welfare Act, as applicable. The endnotes below are specific USDA regulatory requirements that differ from or are in addition to the PHS Policy. This list is not intended to be all inclusive. For additional information please refer to 9 CFR Subchapter A - Animal Welfare.

 Period of restraint is the minimum to meet scientific objectives (Guide, p 29) 	Χ		-		
 Training of animals to adapt to restraint is provided (Guide, p 29) 	X				
 Animals that fail to adapt are removed from study (Guide, p 29) 	X				
 Appropriate observation intervals of restrained animals are provided (Guide, p 29) 	X				
 Veterinary care is provided if lesions or illness result from restraint (Guide, p 30) [must] 	X			and the state of t	
 Explanations of purpose and duration of restraint are provided to study personnel (Guide, p 30) 	X				
 Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, p 30) 	X	-		And the first firs	
 Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide p 30) 	X				
 Multiple survival procedure justifications in non-regulated species conform to regulate species standards (Guide, p 30) 	d X				
 Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p 31) 					X
 Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p 31) 					X
Daily written records are maintained for food/fluid restricted animals (Guide, p 31)					X
 Pharmaceutical grade chemicals are used , when available, for animal-related procedures (Guide, p 31) 	X		1		
 Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (Guide, p 31) 	X				
 Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (Guide, p 32) 					Х
 Disposition plans are considered for species removed from the wild (Guide, p 32) 				-	X
 Toe-clipping only used when no alternative, performed aseptically and with pain relief (Guide, p 75) 	X		999		
. IACUC Membership and Functions	\mathbf{A}^*	M	S	C	NA
 IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, <u>IV.A.3.</u>) Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab 	X				
animal user (Guide, p 24) ²	Χ				
 IACUC authority and resources for oversight and evaluation of institution's program 	X				
are provided (Guide, p 14)					
 IACUC conducts semiannual evaluations of institutional animal care and use program 	Х		70 10 10 10 10 10 10 10 10 10 10 10 10 10	-	
 IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, IV.B.) 	X				
 IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <u>IV.B.</u>) Conducts semiannual inspections of institutional animal facilities (PHS Policy, <u>IV.B.</u>) IACUC organizationally reports to the Institutional Official (PHS Policy, <u>IV.A.1.b.</u>) 	X				
 IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <u>IV.B.</u>) Conducts semiannual inspections of institutional animal facilities (PHS Policy, <u>IV.B.</u>) IACUC organizationally reports to the Institutional Official (PHS Policy, <u>IV.A.1.b.</u>) Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, <u>p. 23</u>) [must] 	X				
 IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <u>IV.B.</u>) Conducts semiannual inspections of institutional animal facilities (PHS Policy, <u>IV.B.</u>) IACUC organizationally reports to the Institutional Official (PHS Policy, <u>IV.A.1.b.</u>) Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, <u>parallel</u>) Reviews and investigates concerns about animal care and use at institution³ (PHS Policy, <u>IV.B.</u>) 	XXX			A STATE OF THE PARTY OF T	
 IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <u>IV.B.</u>) Conducts semiannual inspections of institutional animal facilities (PHS Policy, <u>IV.B.</u>) IACUC organizationally reports to the Institutional Official (PHS Policy, <u>IV.A.1.b.</u>) Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i>, <u>p. 23</u>) [must] Reviews and investigates concerns about animal care and use at institution³ (PHS 	XXX				

² Part 2 Subpart C - Research Facilities

^{- 2.31(}b)(2) - "The Committee shall be composed of a Chairman and at least two additional members;... at least one shall not be affiliated in any way with the facility...such person will provide representation for general community interests in the proper care and treatment of animals." [PHS policy requires 5 members]

³ 2.32(c)(4) - "...No facility employee, Committee member, or laboratory personnel shall be discriminated against or be subject to any reprisal for reporting violations of any regulation or standards under the Act." [USDA requirement additional to PHS Policy]

⁴ 2.31(d)(5) - "...shall conduct continuing reviews of activities...not less than annually." [PHS Policy requires a complete new review every 3 years utilizing all the criteria for initial review]

 activities (PHS Policy, <u>IV.B.</u>) Policies are in place for special procedures (e.g., genetically restraint, multiple survival surgery, food and fluid regulation, agricultural animals) (<i>Guide</i>, <u>p 27-32</u>) Requests for exemptions from major survival surgical proced to USDA/APHIS⁵ (<i>Guide</i>, <u>p 32</u>) [must] 	field investigations,	×
 IACUC Training NEW All IACUC members should receive: Formal orientation to institution's program (Guide, p 17) Training on legislation, regulations, guidelines, and policie Training on how to inspect facilities and labs where animal (Guide, p 17) Training on how to review protocols as well as evaluate the Ongoing training/education (Guide, p 17) 	al use or housing occurs	S C NA
 IACUC Records and Reporting Requirements⁶ Semiannual report to the IO (PHS Policy, IV.B.) Submitted to IO every 6 months Compiles program review and facility inspection(s) result and facility deficiencies) Includes minority IACUC views Describes IACUC-approved departures from the Guide or reasons for each departure⁷ Distinguishes significant from minor deficiencies Includes a plan and schedule for correction for each deficencies Annual report to OLAW documents program changes, date program reviews and facility inspections and includes any Promptly advises OLAW of serious/ongoing Guide deviation noncompliance (NOT-OD-05-034) Institute must promptly advise OLAW of any suspension of the IACUC (NOT-OD-05-034) Reports to U.S. Department of Agriculture (U Annual report to USDA contains required information includes exceptions/exemptions 	PHS Policy and the X X iency identified ⁸ Volicy, <u>IV.F.</u>) es of the semiannual minority views Vons or PHS Policy X of an animal activity by X SDA) or Federal funding agency ⁹	C NA

 $^{^{5}}$ 2.31(d)(1)(x) - "...no animal will be used in more than one major operative procedure from which it is allowed to recover unless...(it is) justified for scientific reasons...(or is) required as routine veterinary procedure...or other special circumstances as determined by the Administrator on an individual basis." [this last point is an additional USDA justification for multiple survival surgeries]

⁶ 2.36 - "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]

⁷ 2.36(b)(3) - "...exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the IACUC. A summary of all such exceptions must be attached to the facility's annual report." [Refers to USDA annual report]

⁸ 2.31(c)(3) - "...Any failure to adhere to the plan and schedule that results in a significant deficiency remaining uncorrected shall be reported in writing within 15 business days by the IACUC, through the institutional official, to APHIS and any Federal agency funding that activity." [PHS Policy requires prompt reporting to OPRR of serious or continuing noncompliance with the PHS Policy or serious deviations from the provisions of the *Guide*]

⁹ 2.36 - "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]

		0	Reporting mechanism to USDA is in place for IACUC-approved exceptions to the	X				
		0	regulations and standards Reports are filed within 15 days for failures to adhere to timetable for correction of					
			significant deficiencies Promptly reports suspensions of activities by the IACUC to USDA and any Federal	Χ				1
		0	funding agency	Χ				
			 Records (PHS Policy, <u>IV.E.</u>) 					
		0	IACUC meeting minutes and semiannual reports to the IO are maintained for 3 years	X				
		0	Records of IACUC reviews of animal activities include all required information 10	X				
		0	Records of IACUC reviews are maintained for 3 years after the completion of the					
			study	X				J
В.	Ve		inary Care (See also next section - Veterinary Care)	\mathbf{A}^*	M	S	С	NA
	•		arrangement for veterinarian(s) with training or experience in lab animal medicine n place including backup veterinary care ¹¹	X				
	•		terinary access to all animals is provided (Guide, p 14) [must]	X				
	•		ect or delegated authority is given to the veterinarian to oversee all aspects of					
	•		imal care and use (<i>Guide</i> , <u>p 14</u>) [must] terinarian provides consultation when pain and distress exceeds anticipated level in	Χ				
	•		btocol (Guide, p 5) [must]	Χ				
	•		terinarian provides consultation when interventional control is not possible (Guide, p					
			[must] part time /consulting veterinarian, visits meet programmatic needs (<i>Guide</i> , p <u>14</u>)	Χ				X
	•	Re	gular communication occurs between veterinarian and IACUC (Guide, p 14)	Χ				
	•		terinarian(s) have experience and training in species used ($Guide$, p 15) [must] terinarian(s) have experience in facility administration/management ($Guide$, p 15)	X				
9.	Pe		onnel Qualifications and Training	A *	M	S	C	NA
	•		personnel are adequately educated, trained, and/or qualified in basic principles of oratory animal science. Personnel included: [must]					
		0	Veterinary/other professional staff (Guide, p 15-16)	Χ				
		0	IACUC members (<i>Guide</i> , <u>p 17</u>) Animal care personnel (<i>Guide</i> , <u>p 16</u>)	X				
		0	Research investigators, Instructors, technicians, trainees, and students (<i>Guide</i> , pp	^				
		_	<u>16-17</u>)	X				:
	•	Co	ntinuing education for program and research staff provided to ensure high quality	Χ				

¹⁰ In addition to PHS requirements for IACUC review/application for funding, USDA regulations require:
2.31(d)(1)(ii) - "The principal investigator (PI) consider alternatives to procedures that cause more than momentary or slight pain or distress to the animals, and has provided a written narrative description of the methods and sources...used to determine that alternatives were not available."

^{2.31(}d)(1)(iii) - "The PI has provided written assurance that the activities do not unnecessarily duplicate previous experiments."

^{2.31(}d)(1)(iv) - "Procedures that may cause more than momentary or slight pain or distress to the animals will:

⁻ involve in their planning, consultation with the attending veterinarian or his or her designee; [PHS Policy does not specify veterinary consultation]

⁻ not include paralytics without the use of anesthesia;"

^{2.31(}d)(1)(x) - "No animal will be used in more than one major operative procedure from which it is allowed to recover, unless justified for scientific reasons by the principal investigator, in writing..."

¹¹ 2.33(a)(1) - "In the case of a part-time attending veterinarian or consultant arrangements, the formal arrangements shall include a written program of veterinary care and regularly scheduled visits to the research facility." [USDA requirement additional]

	re and reinforce training (Guide, pp 16-17)	X				
	Training is available prior to starting animal detivity (cardo) p. 22.					
Tr	aining is documented (<i>Guide</i> , p 15)	X				
	 Training program content includes: (Guide, p 17) 					
0	Methods for reporting concerns (Guide, p 17)	X				
0	Humane practices of animal care (e.g., housing, husbandry, handling) 12	X				
0	Humane practices of animal use (e.g., research procedures, use of anesthesia, pre- and post-operative care, aseptic surgical techniques and euthanasia ($Guide$, p 17) 13					
0	Research/testing methods that minimize numbers necessary to obtain valid results (PHS Policy, IV.A.1.g.)	X				
0	IV.A.1.g.)	X				
0	Use of hazardous agents, including access to OSHA chemical hazard notices where applicable ($Guide$, p 20)	X				
0	Animal care and use legislation (Guide, p 17)	X				
0	IACUC function (Guide, p 17)	X				
0	Ethics of animal use and Three R's (Guide, p 17)	X				

10.	Occupational Health and Safety of Personnel	A*	M	S	C	NA
•	Program is in place and is consistent with federal, state, and local regulations (<i>Guide</i> , p 17) [must]	Х				
•	Program covers all personnel who work in laboratory animal facilities (Guide, p 18)	Χ				
	Changing, washing, and showering facilities are available as appropriate (Guide, p 19)	Χ				
•	Hazardous facilities are separated from other areas and identified as limited access ($Guide$, p 19)	Х				
•	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies) (<i>Guide</i> , <u>p 20</u>)	X				Calabarana and apply to the calabarana
•	policies) (<i>Guide</i> , p 20)					
•	 Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place (Guide, p 21) 					
•	Personal Protective Equipment for the work area is appropriate and available (Guide, \underline{p} 21)	Χ				and the second s
	 Program for medical evaluation and preventive medicine for personnel in 	clud	es:			. 1
	 Pre-employment evaluation including health history (Guide, p 22) 	Χ				
	 Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate (Guide, p 22) 	Χ				and the same of th
	 Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, p 23) 	Х				the state of the s
	 Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (Guide, p 23) 	Χ				
	o Promotes early diagnosis of allergies including preexisting conditions (Guide, p 22)	Χ				100000000000000000000000000000000000000
	 Considers confidentiality and other legal factors as required by federal, state and local regulations (Guide, p 22) [must] 	X				

¹² 2.32(c) - "Humane methods of animal maintenance and experimentation, including the basic needs of each species, proper handling and care for the various species of animals used by the facility, proper pre-procedural and post-procedural care of animals, and aseptic surgical methods and procedures."

- "proper use of anesthetics, analgesics, and tranquilizers for any species of animals used by the facility"

- "methods whereby deficiencies in animal care and treatment are reported, including deficiencies in animal care and treatment reported by any employee of the facility..."

¹³ 2.32(c) - additional specifications include:

^{- &}quot;utilization of services (e.g., National Agricultural Library, National Library of Medicine) to provide information on appropriate animal care and use, alternatives to the use of live animals in research, that could prevent unintended and unnecessary duplication of research involving animals, and regarding the intent and requirements of the Act." [USDA training specifications are more detailed than PHS Policy]. Semiannual Checklist

	 If serum samples are collected, the purpose is consistent with federal and state laws (Guide, p 22) [must] Waste anesthetic gases are scavenged (Guide, p 21) Hearing protection is provided in high noise areas (Guide, p 22) 	X		The state of the s		X	
	 Respiratory protection is available when performing airborne particulate work (Guide, 	V					
	 p 22) Special precautions for personnel who work with nonhuman primates, their tissues or 	X		l.			
	body fluids include:						
	 Tuberculosis screening provided for all exposed personnel (Guide, p 23) 					X	
	o Training and implementation of procedures for bites, scratches, or injuries associated with macaques (<i>Guide</i> , p 23)					Χ	
	 PPE is provided including gloves, arm protection, face masks, face shields, or goggles (Guide, p 21) 					χ	
	 Injuries associated with macaques are carefully evaluated and treatment 						
	implemented (Guide, p 23)					X	
	 Occupational safety and health of field studies is reviewed by OSH committee or office (Guide, p 32) 					Χ	
11		A *	M	S	С	NA	L
	 Preventive measures in place include pre-employment screening, and physical and IT security (Guide, p 23) 	X				100 100 100 100 100 100 100 100 100 100	
12		A *	M	S	С	NA	i.
	Methods for investigating and reporting animal welfare concerns are established (Guide, p 23) [must]	X					
	 Reported concerns and corrective actions are documented (<i>Guide</i>, p 24) 	X					
	 Mechanisms for reporting concerns are posted in facility and at applicable website with 						
	instructions (Guide, p 24)	X					
	 Includes multiple contacts (Guide, p 24) 	X					
	o Includes anonymity, whistle blower policy, nondiscrimination and reprisal						
*	protection (<i>Guide</i> , <u>p 24</u>)	Χ					
~	<pre>A = acceptable M = minor deficiency</pre>						
	S = significant deficiency (is or may be a threat to animal health or safety)						
	C = change in program (PHS Policy <u>IV.A.1.ai.</u>) (include in semiannual report to IO and in annual rep	ort to	OLA	W)			
	NA = not applicable						

NOTES:

Veterinary Care

Date: AUGUST 20, 2020

Veterinary program offers high quality of care and ethical standards (<i>Guide</i> , <u>p. 105</u>) Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (<i>Guide</i> , <u>p. 105</u>) Veterinarian provides oversight to surgery and perioperative care (<i>Guide</i> , <u>p. 105</u>) Veterinary care program is appropriate for program requirements (<i>Guide</i> , <u>p. 114</u>) Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records (<i>Guide</i> , <u>p. 114</u>) Procedures to triage and prioritize incident reports are in place (<i>Guide</i> , <u>p. 114</u>) Procedures established for triage with the IACUC and documentation of treatments and outcomes (<i>Guide</i> , <u>p. 114</u>) O Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (<i>Guide</i> , <u>p. 114</u>) O Veterinary review and oversight of medical and animal use records (<i>Guide</i> , <u>p. 115</u>) Procedures established for timely reporting of animal injury, illness, or disease (<i>Guide</i> , <u>p. 114</u>) and the contract of	1.	CI	inical Care and Management NEW	\mathbf{A}^*	M	S	C	NA
Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (<i>Guide</i> , p.106)		•						
Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (Guide, p. 106) Veterinarian provides oversight to surgery and perioperative care (Guide, p. 106) Veterinarian provides oversight to surgery and perioperative care (Guide, p. 113-114) Veterinary care program is appropriate for program requirements (Guide, p. 114) Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records (Guide, p. 114) Procedures to triage and prioritize incident reports are in place (Guide, p. 114) Procedures to triage and prioritize incident reports are in place (Guide, p. 114) Procedures with experiments to determine course of treatment in consultation with investigator(Guide, p. 114) Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p. 114) Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p. 114) Veterinary review and oversight of medical and animal use records (Guide, p. 115) Procedures established for timely reporting of animal injury, illness, or disease (Guide, p. 114) Inust Procedures established for veterinary assessment, treatment, or euthanasia (Guide, p. 114) Inust Procedures for lawful animal procurement are in place (Guide, p. 106) Procedures for lawful animal procurement are in place (Guide, p. 106) Procedures in linked to IACUC review and approval (Guide, p. 106) Population status of wildlife species is considered prior to procurement (Guide, p. 106) Procedures in linked to IACUC review and approval (Guide, p. 106) Procedures in place for emplained with animal transportation regulations, including international requirements, are in place (Guide, p. 107) Procedures in place for in place for international requirements, are in place (Guide, p. 107) Procedures in place for stabilization/acclimation (Guide, p. 110) Procedures in place for stabilization/acclimation (Χ	1 4 4 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10			
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 Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) Surgery Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X 			separated (Guide, p 110)	X				
 Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) Surgery Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X 		Bro.	Procedures in place for stabilization/acclimation (Guide, pp 110-111)	Χ		-		
 Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) Surgery Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X 			Policies in place for isolation of sick animals (Guide n 112)	2000				
Diagnostic resources are available for preventive health program (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) Surgery Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X Semiannual Checklist		•	Program is in place for surveillance, diagnosis, treatment and control of disease to					
 Diagnostic resources are available for preventive health program (Guide, p 112) Surgery Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X 			include daily observation (Guide, p. 112)	Х	201	-		
 Surgery Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X 		•	Diagnostic resources are available for preventive health program (Guide, p. 112)				-	
 Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) must Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X Semiannual Checklist	3	S				-		-
 Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) Researchers have appropriate training to ensure good technique (Guide, p 115) must Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X Semiannual Checklist	•	Ju		A*	M	S	C	NA
• Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X Semiannual Checklist			Pescarchara have a reassessed and corrective changes instituted (Guide, p 115)	X				
Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X Semiannual Checklist		•	Researchers have appropriate training to ensure good technique (Guide, p. 115)	200				
Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, X Semiannual Checklist V12(1/2011)			[must]	X				
Semidiffual Checklist V12/1/2011	_		Pre-surgical plans are developed and include veterinary input (e.g., location, supplies,	-				
	S	emia	innual Checklist	1	ed by	Riso	or 74 -	nimala

			representation of		magn uns	
	 anesthetic and analgesic use, peri-operative care, recordkeeping) (Guide, p 116) Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justifications. 				Mildione a spirit	
- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	 and IACUC approved (<i>Guide</i>, p 116) Surgical procedures including laparoscopic procedures are categorized as major or minor (<i>Guide</i>, pp 117-118) 	X			the characteristics and the control of the characteristics and the characteris	
	 For nonsurvival surgery, the site is clipped, gloves are worn and instruments and are are clean (Guide, p 118) 	-			VINDA DA SERVICIO DE SERVICIO	
	 Aseptic technique is followed for survival surgical procedures (Guide, pp 118-119) 	X				
	 Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (Guide, p 119) 	X	AND THE THEORY IS NOT THE PARTY.			
	 Procedures for monitoring surgical anesthesia and analgesia are in place (Guide, p 119) 	Х	The state of the s			
	 For aquatic species, skin surfaces are kept moist during surgical procedures (Guide, 119) 				TOTAL CONTRACTOR AND	
	 Post-operative monitoring and care are provided by trained personnel and document (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) (Guide, pp 119-120) 	ed X		AND THE PERSON OF THE PERSON O		
4	Pain, Distress, Anesthesia and Analgesia	A *	М	S	C	NA
***************************************	 Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training (Guide, p 121) 	X			Section of the sectio	
and a first to consense of the first states	 Selection of analgesics and anesthetics is based on professional veterinary judgment (Guide, p 121) 	X				
and in a distance	 Painful procedures are monitored to ensure appropriate analgesic management (Guide, p 122) 	X				
	 Nonpharmacologic control of pain is considered as an element of postprocedural care (Guide, p 122) Procedures are in place to assure antinoception before surgery begins (Guide, p 122) 	X	The state of the s			
	[must]	×				
	 Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (<i>Guide</i>, p 122) Special precautions for the use of paralytics are in place to ensure anesthesia¹⁴ 	X				
	(Guide, p 123)					Х
5	. Euthanasia	\mathbf{A}^*	М	S	С	NA
	 Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC (Guide, p 123) 	X		A design to the second		
	 Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species (Guide, pp 123-124) 	X				A
	 Training is provided on appropriate methods for each species and considers psychological stress to personnel (<i>Guide</i>, p 124) 	X			and the second s	
	 Procedures and training are in place to ensure death is confirmed (Guide, p 124) [must] 	X				
5.	- 1 ag otorage and control	\mathbf{A}^*	M	S	C	NA
	 Program complies with federal regulations for human and veterinary drugs(Guide, p. 115) [must] 	V				100 TO
	 Drug records and storage procedures are reviewed during facility inspections (Guide, 115) 	D X				11 49
	 Procedures are in place to ensure analgesics and anesthetics are used within expiration date (Guide, p 122) [must] 	X				
k	 Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely (Guide, p 122) 	Х	A PART AND A PART A PAR			A Control of the Cont
	 A = acceptable M = minor deficiency S = significant deficiency (is or may be a threat to animal health or safety) 			- 1		
	Today of Surcey)					

^{14 2.31(}d)(iv)(C) - "Procedures that may cause more than momentary or slight pain or distress to the animals will...not include the use of paralytics without anesthesia."

Semiannual Checklist

v12/1/2011

TEAM #1				TEAM #2			
Room #	Level	Contents	Code	Room #	Level	Contents	Code
		Feed room				GTTF Mouse room	
		Necropsy			0	GTTF Gowning room	
		Clinical laboratory			0	GTTF Procedure room	
		Rodent OR			0	GTTF Procedure room	
		Rodent OR			0	GTTF Mouse room	
		Surgical Scrub			0	Spy's Lab	
		Chemical storage			0	GTTF Mouse room	
		Large OR			0	GTTF Mouse room	
		Prep room			0	GTTF lab	
	6	Mice			0	Cryo lab	
	6.5	Quarantine			0	GTTF lab	
	5	Temporary Holding Room & Test a	a		,	Sterile cage storage	
		Soiled Washroom			0.5	Mice	
		Clean Washroom				Jax Lab	
	1.2 & 8	Hyperoxia Chamber & Cold Rabbit	t		1	Mice	
		Sound proof room			1	Mice	
		Animal receiving			1	Mice	
		Bedding storage/dispensing			1	Mice	
		Bedding machine room			1.2	Mice	
		Loading dock			1.2	Mice	
		Supply Storage				Procedure room	
		Transport Vehicle				Procedure room	
						Rack staging	
						Janitor closet	

TEAM #3				TEAM #4			
Room #	Level	Contents	Code	Room #	Level	Contents	Code
	1	Mice			1.2	Mice	
	1.2	Mice			1.2	Mice	
	1	Mice			1.2	Mice	
	1.2	Mice			1	Mice	
	1.2	Mice			1	Mice	
	1.2	Mice			1	Mice	
		Procedure room			1	Mice	
		Procedure room			1	Mice	
		Rack staging			1	Mice	
		Janitor closet			1.2	Mice	
	1.2	Mice			1	Mice	
	1.2	Mice				Procedure room	
	4	Chem holding room				Procedure room	
	4	Chem hazard procedure room				Imaging anteroom	
		Storage				Imaging suite	
		Aquatic room				Rack storge	
		Procedure room				Janitor closet	
		Procedure room			4	ABSL-2 anteroom	
		Rack staging			4	ABSL-2 procedure room	
		Janitor closet			4	ABSL-2 Mice & Rats	
	8	Rabbit			4	ABSL-2 Mice	
	8	Rabbit				Procedure room	
	8	Rat				Procedure room	
	3	Rat				Rack storge	
	8	Rabbit				Janitor closet	
	7	Guinea pig				Behavior suite anteroom	
		Necropsy				Perfusion lab	
		Rack staging				Behavioral lab	
		Janitor closet				Behavioral lab	
						Behavioral lab	
						Rack storage	
						Janitor closet	

July 2020

		July 2020	Confirmed	Available	
	Primary Investigator	Room Number	Date	Time	IACUC
			7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020	9:20 AM 9:40 AM 10:00 AM 10:20 AM 10:40 AM	
			7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020 7/13/2020	9:00 AM 9:20 AM 9:40 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 11:20 AM	V O, BC
			7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020	9:00 AM 9:20 AM 9:40 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 11:20 AM	
,			7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020 7/14/2020	9:00 AM 9:20 AM 9:40 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 11:20 AM	
			7/15/2020 7/15/2020 7/15/2020 7/15/2020 7/15/2020 7/15/2020 7/15/2020 7/15/2020 7/15/2020	9:00 AM 9:20 AM 9:40 AM 10:00 AM 10:20 AM 11:00 AM 11:20 AM 11:40 AM	

July 2020

Confirmed Available

7/15/2020 9:00 AM 7/15/2020 9:20 AM	
7/13/2020 9.20 AM	
7/15/2020 9:40 AM	
7/15/2020 9.40 AM 7/15/2020 10:00 AM	
7/15/2020 10:00 AM 7/15/2020 10:20 AM	
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7/23/2020 11:00 AM	
7/23/2020 11:40 AM	
7/23/2020 1:00 PM	

July 2020

		Confirmed A	vailable
Primary Investigator	Room Number	Date	Time
WALK OVER TO MARB		7/22/2020	9:00 AM
		7/22/2020	9:20 AM
		7/22/2020	9:40 AM
		7/22/2020	10:00 AM
		7/22/2020	10:20 AM
MARB ANIMAL FACILITY		7/22/2020	10:40 AM
Contract to the State of the St			
BUS OVER TO 400 EARMINGTON AVEN	IUE (Bus #4)	7/22/2020	9:10 AM
		7/22/2020	9:40 AM
		7/22/2020	10:00 AM
GCSB ANIMAL FACILITY		7/22/2020	10:20 AM
BUS BACK TO ACADEMIC ENTRANCE	(Bus #4)	7/22/2020	11:04 AM
		7/22/2020	11:20 AM
		7/22/2029	11:40 AM

Finding

Floors must be impervious to water

HuskySMS facilities inspection deficiencies

Date Space(s)

Attachment #3

Inspector

Resolved Inspection Type

UCHC- Animal Facility Food and Bedding

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Deficiency Category (S or M)	*	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule & Interim Status	Date Complete
Л Л Л			Animal protocols have not been read/documented Animal safety protocols have not been read/documented Animal training records are incomplete or missing Eye wash checks are not performed and/or documented Other Issues- Charcoal filters not dated with periodical weighing		Will check again November 2020	
1			Biosafety cabinets are not calibrated		PO is in for calibration	
1			Sharps disposal - inadequate (overflowing/recapped needles)		Will check again November 2020	
Л			Animal protocols have not been read/documented		Will check again November 2020	
Л			Drugs are past expiration dates Isoflourane		Informed not to use expired drug and get a replacement	

 \circ **S** = significant deficiency, **M** = minor deficiency (a significant deficiency is or may be a threat to animal health or safety)

obtained by Rise for Animals.

Deficiency Category (S or M)	*	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule & Interim Status	Date Complet
1			Eye wash checks are not performed and/or documented E-1053 Other Issues- Empty, dirty cage on floor of lab. E-1052		Will check again November 2020	
Л Л Л			Animal protocols have not been read/documented Animal safety protocols have not been read/documented Animal training records are incomplete or missing Drugs are past expiration dates-Isoflourane Eye wash checks are not performed and/or documented		Will check again November 2020 Informed to discard expired isoflurane	
Л Л Л			Drugs are past expiration dates Isofluorane Gas cylinders are not adequately secured -E3027 Biosafety cabinets are not calibrated E-3027		Will check again November 2020 Informed to discard expired isoflurane	
Л Л Л Л			Animal protocols have not been read/documented Animal safety protocols have not been read/documented *Animal training records are incomplete or missing. Controlled drug log sheets are inadequately completed Controlled drug storage is not behind two locks		Will check again November 2020 PI told to dispose of controlled substances to CCM	
Л			*Animal training records are incomplete or missing		Animal training records need to be generated and saved	8/13/20- ac resolved
Л			Scavenging of isoflurane waste gasses is inadequate	-	Will check again November 2020	

Deficiency Category (S or M)	*	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule & Interim Status	Date Complete
M M			Biosafety cabinets are not calibrated Sharps disposal - inadequate (overflowing/recapped needles)		Will check again November 2020	
М			Biosafety cabinets are not calibrated		PO submitted for calibration Will check again November 2020	
VI			Eye wash checks are not performed and/or documented		Will check again November 2020	
И			Eye wash checks are not performed and/or documented		Will check again November 2020	
Л			Gas cylinders are not adequately secured		Will check again November 2020	
Л			Animal training records are incomplete or missing		Animal training records need to be generated and saved	8/13/20- action resolved

S = significant deficiency, M = minor deficiency (a significant deficiency is or may be a threat to animal health or safety) *Check if repeat deficiency

UNIVERSITY OF CONNECTICUT HEALTH CENTER SEMIANNUAL PROGRAM & FACILITY REVIEW REPORT

ATTACH#

ploaded to Animal Research Laboratory Overview (ARLO) on 04/07

Deficiency Category (S or M)	*	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule & Interim Status	Date Complete
1			Eye wash checks are not performed and/or documented		Will check again November 2020	
1			Drugs are past expiration dates Isoflourane		PI told to discard expired drugs	
A A A			Animal protocols have not been read/documented Controlled drug log sheets are inadequately completed Drugs are past expiration dates		Will check again November 2020 PI told to discard expired drugs	
			*Animal protocols have not been read/documented Animal safety protocols have not been read/documented		Will check again November 2020	
1			Animal protocols have not been read/documented		Will check again November 2020	
1			Animal protocols have not been read/documented Animal safety protocols have not been read/documented Animal training records are incomplete or missing		Will check again November 2020	

S = significant deficiency, M = minor deficiency (a significant deficiency is or may be a threat to animal health or safety) *Check if repeat deficiency
UNIVERSITY OF CONNECTICUT HEALTH CENTER SEMIANNUAL PROGRAM & FACILITY REVIEW REPORT

M M M		Animal protocols have not been read/documented Animal safety protocols have not been read/documented Animal training records are incomplete or missing Controlled drug log sheets are inadequately completed Controlled drug storage is not behind two locks	Will check again November 2020 PI in formed to discard controlled substances to CCM	
И		,		
	, [Animal training records are incomplete or missing	Will check again November 2020	
M	F	Fume hoods are not calibrated. Both fume hoods have been inspected, and failed.	Work order submited	
M		Animal protocols have not been read/documented	Will check again November 2020	
VI	A	Animal training records are incomplete or missing	Will check again November 2020	
M M M		Animal protocols have not been read/documented Animal safety protocols have not been read/documented Animal training records are incomplete or missing	Will check again November 2020	

Deficiency Category (S or M)	*	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule & Interim Status	Date Comple
M			Biosafety cabinets are not calibrated		PO submitted	
M			Sharps disposal - inadequate (overflowing/recapped needles)		Sharps disposal container changed	8/13/20
M			Eye wash checks are not performed and/or documented		Will check again November 2020	
М М М М			Animal protocols have not been read/documented Animal training records are incomplete or missing		Will check again November 2020	
М М И И И И			Animal training records are incomplete or missing Eye wash checks are not performed and/or documented		Will check again November 2020	
M			Animal protocols have not been read/documented Animal safety protocols have not been read/documented Animal training records are incomplete or missing Drugs are past expiration dates-Isoflourane		Will check again November 2020 PI informed to discard expired drugs	

Approved Deviations from the *Guide for the Care and Use of Laboratory Animals* and/or Exemptions to the Standards of the Animal Welfare Act and Regulations

1. Protocol Approved 11/29/17 Expires 8/31/20 **Deviation**: Housing outside CCM facilities for >24 hours Justification: Sensors implanted in mice are attached to computers which cannot be brought into housing rooms. 2. Protocol Approved 1/16/18 Expires 10/31/20 Deviation 1: Prolonged restraint Justification 1: Light restraint is required to ensure that contact with the electrodes is maintained throughout testing AND because the ability to move and turn during testing would cause significant activation of the abdominal musculature and would likely obscure the EMG activity resulting from colorectal distension. Without restraint, it is not possible to maintain contact with the electrodes exiting the nape of the neck without risking pulling the electrodes out of the light anchors within the abdominal musculature. **Deviation 2: MMSS Justification 2**: Related components of a single research objective. Protocol Approved 3/23/18 Expires 12/31/20 **Deviation**: Fluid deprivation Justification: Required for behavioral testing Expires 1/31/20 4. Protocol Approved 4/25/18 Deviation: MMSS **Justification:** Related components of a single research objective. Protocol Approved 4/26/18 Expires 1/31/20 **Deviation:** Cage changing not performed for 2-3 week after bone marrow chimera procedure. Justification: The mice have a platelet deficiency during the initial week or two of recovery, they will not be handled or have their bedding changed to minimize the chance of internal bleeding. **Deviation 2: MMSS Justification 2:** Related components of a single research objective. 6. Protocol Approved 5/29/18 Expires 2/21/21 Deviation: Use of wire-bottom caging **Justification:** Required temporarily for urine collection. 7. Protocol Approved 6/6/18 Expires 3/31/21 **Deviation**: Prolonged restraint. Justification: Weight bearing research - Tail suspension as a model of hindlimb unloading for bone and joint research is a well-established model with over 1000 publications. 8. Protocol Approved 6/26/18 Expires 3/31/21 Deviation: Use of wire-bottom caging

Justification: Required temporarily for urine collection.

9. Protocol Approved 7/24/18/18 Expires 4/30/21

Deviation 1: Food restriction for 6 hours

Justification 1: To perform a glucose tolerance test

Deviation 2: Single housing of social species

Justification 2: Required to collect stool samples for subsequent administration

10. Protocol Approved 8/3/18 Expires 5/31/18

Deviation 1: Food and water restriction

Justification 1: Chronic unpredictable mild stress (CUMS) is an established animal of depression. Mice show depression-like behaviors after exposing to a variable sequence of 13 unpredictable stressors for 28 days. Food deprivation and water deprivation, less than 14 h, are the two key components of the 13 stressors in this CUMS protocol, mice are unlikely to develop typical depression-like behaviors if food deprivation or water deprivation is excluded from this CUMS protocol.

Deviation 2: The mouse will be placed in a 50 ml conical tube that has a lot of holes (for air circulation) for 1h and prevents the mouse from moving around.

Justification 2: part of the CUMS model of depression.

11. Protocol Approved 8/9/18 Expires 5/31/18

Deviation 1: Food and fluid restriction

Justification 2: Method to induce CUMS for depression studies

Deviation 2: Prolonged restraint

Justification 2: Method to induce CUMS for depression studies

12. Protocol Approved 8/16/18 Expires 5/31/18

Deviation: Housing of rabbits outside thermoneutral zone

Justification: Rabbits are used to propogate *T. pallidum* and the reduced temperature is required for the bacteria to grow in the rabbits.

13. Protocol Approved 8/23/18 Expires 5/31/18

Deviation 1: Use of wire bottom caging

Justification 1: Mice inoculated with ticks, when ticks are finished feeding, they fall off the animals. In order to collect them, mice are kept in wire bottom cages over water.

Deviation 2: Animals housed outside CCM for >24 hours.

Justification 2: The feeding of ticks on the animals and collection of the subsequent infected ticks are housed in the PI laboratory as animals are monitored throughout the day.

14. Protocol Approved 9/28/18 Expires 6/30/21

Deviation: Use of wire-bottom caging

Justification: Required temporarily for urine collection.

15. Protocol Approved 10/18/18 Expires 7/31/21

Deviation: Single housing of pregnant females

Justification: Critical to ensure precise timings of matings

16. Protocol Approved 10/19/18 Expires 7/31/21

Deviation: Cervical dislocation without anesthesia

Justification: Anesthesia interferes with interferon-induced NK cell cytotoxicity which the lab is studying.

17. Protocol Approved 11/5/18 Expires 8/31/21

Deviation: >150g weight cage density

Justification: Mice in protocol gain weight, so they will get large (as they are studying obesity) and to separate mice will interfere with experimental parameters.

18. Protocol Approved 11/20/18 Expires 8/31/21

Deviation: Use of wire bottom caging

Justification: Urine collection

19. Protocol Approved 12/18/18 Expires 9/30/21

Deviation: Water restriction

Justification: Requirement for the behavioral testing being performed.

20. Protocol Approved 12/19/18 Expires 9/30/21

Deviation: Use of wire bottom caging

Justification: Urine collection

21. Protocol Approved 12/21/18 Expires 9/30/21

Deviation: Individual housing of mice

Justification: Individual housing after a subcutaneous implant for a maximum time of 12

days; Pls don't want implants to be disturbed.

22. Protocol Approved 12/21/19 Expires 9/30/21

Deviation: Cervical dislocation without anesthesia

Justification: Gasses and anesthetics suppress myocardial function which will

negatively impact work.

23. Protocol Approved 1/10/19 Expires 10/31/21

Deviation: No environmental enrichment after knee surgery

Justification: Enrichment will aggravate the osteoarthritic progression and interfere with the study.

24. Protocol Approved 1/25/19 Expires 10/31/21

Deviation: Cervical dislocation without anesthesia

Justification: Gasses and anesthetics cause hypoxia-induced gene expression

changes which interfere with study.

25. Protocol Approved 1/28/19 Expires 10/31/21

Deviation: No environmental enrichment after knee surgery

Justification: Enrichment will aggravate the osteoarthritic progression and interfere with

the study.

26. Protocol Approved 2/13/19 Expires 11/30/21

Deviation 1: Cervical dislocation without anesthesia

Justification 1: Gasses and anesthetics disrupt hypothalamic-pituitary adrenal axis

which will negatively impact work.

Deviation 2: Food restriction **Justification 2:** Overnight fast prior to a glucose tolerance test.

27. Protocol Approved 2/26/19 Expires 11/30/21

Deviation: Cervical dislocation without anesthesia

Justification: Gasses and anesthetics impairs viability of isolated limb bud

mesenchymal cells which interfere with study.

28. Protocol Approved 2/28/19 Expires 11/30/21

Deviation: Cervical dislocation without anesthesia

Justification: Gasses and anesthetics interfere with lymphocyte functions which interfere with study.

Expires 12/31/21 29. Protocol Approved 3/12/19 Deviation: Cervical dislocation without anesthesia Justification: Gasses and anesthetics interfere with lymphocyte functions which interfere with study. 30. Protocol Approved 4/17/19 Expires 1/31/22 Deviation: Individual housing of social species Justification: Housed individual after surgery to avoid any damage that may result if animals fight or groom excessively. Approved 6/25/19 Expires 3/31/22 31. Protoco Deviation: Light intensity of 400-600 lux Justification: Required for experimental parameter for AMD

32. Protocol Approved 7/1/19 Expires 4/30/22

Deviation: Individual housing of social species **Justification**: Required to ensure adequate bacterial colonization on mouse skin; grooming by other mice would affect skin growth of the microorganisms.

33. Protocol Approved 7/29/19 Expires 4/30/22 **Deviation**: Decapitation without anesthesia **Justification**: Anesthetics and CO₂ elevate plasma glucocorticoid levels and interfere with evaluation.

34. Protoco Approved 7/31/19 Expires 4/30/19 **Deviation 1:** Decapitation without anesthetics

Justification 1: Anesthetics affect gene expression in the intestine **Deviation 2**: Housing outside central facility for greater than 24 hours

Justification 2: Animals are housed in a specialized housing chamber in the laboratory

35. Protocol

Approved 9/16/19

Expires 6/30/22

Deviation: Housing outside central facility for greater than 24 hours

Justification: Mice are given hazardous substances and PI, at the request of the BSO, will provide husbandry rather than introducing substance into the central facility.

36. Protocol Approved 10/22/19 Expires 7/31/22 **Deviation 1:** Individual housing of social species

Justification 2: Animals are attached to glucose and insulin sensors and cage mates can cause destruction of the tubing of wire connections.

Deviation 1: Housing outside central facility for greater than 24 hours

Justification 2: The sensors to which mice are attached are attached to specialized computer equipment in the PI laboratory.

37. Protocol Approved 10/22/19 Expires 7/31/22

Deviation 1: Individual housing of social species

Justification 2: Animals are attached to glucose and insulin sensors and cage mates can cause destruction of the tubing of wire connections.

Deviation 1: Housing outside central facility for greater than 24 hours

Justification 2: The sensors to which mice are attached are attached to specialized computer equipment in the PI laboratory.

38. Protoco Approved 11/14/19 Expires 8/31/22 **Deviation:** Individual housing of social species

Justification: Animals will be housed singly after surgery to prevent wounds from being damaged; animals will be rehoused together after healing is compete.

Approved 11/15/19 39. Protocol Expires 8/31/22 **Deviation**: Individual housing of social species Justification: Animals will be housed singly after surgery to prevent wounds from being damaged; animals will be rehoused together after healing is compete. Approved 11/25/19 Expires 8/31/22 40. Protocol Deviation: Individual housing of social species Justification: Animals will be housed singly after surgery to prevent wounds from being damaged; animals will be rehoused together after healing is compete. Approved 12/13/19 Expires 9/20/22 41. Protocol **Deviation**: Cervical dislocation without anesthesia Justification: Use of CO2 will damage the bursa and make embryo collection impossible. 42. Protocol Approved 2/11/20 Expires 11/30/22 Deviation: Housing animals outside of the central facility for >24 hours Justification: CCM does not have housing available for zebrafish; therefore, fish will be kept in dedicated room outside of CCM under PI control. Expires 2/28/23 43. Protocol Approved 5/4/20 Deviation: Individual housing of social species Justification: Individual fecal samples from individual mice are required for microbiome studies. Approved 5/13/20 Expires 2/28/23 44. Protocol Deviation: Individual housing of social species Justification: Animals will be housed singly after surgery to prevent wounds from being damaged; animals will be rehoused together after healing is compete. Approved 5/26/20 Expires 2/28/23 **Deviation**: Individual housing of social species

Justification: Animals will be housed singly after surgery to prevent wounds from being

damaged; animals will be rehoused together after healing is compete.

CURRENT AS OF 8/20/20